

### Personal Information

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Homepage <https://ohosseini.github.io>

### Education

- 2015–Present **Ph.D. candidate**, *Heidelberg University*, Heidelberg, Germany.  
Scene Understanding
- 2011–2014 **Masters of Science**, *RWTH-Aachen University*, Aachen, Germany.  
Media Informatics  
*Thesis Title* – “Improving depth based people detection for mobile robotics”
- 2005–2009 **Bachelor of Science** *Azad University - South Tehran Branch*, Tehran, Iran.  
Software Engineering  
*Thesis Title* – “Face recognition using appearance based methods”

### Research Interests

Computer Vision, Machine Learning, Deep Learning, Scene Understanding

### Publications

- CVPR 2019 **Localizing Common Objects Using Common Component Activation Map**  
Weihao Li, [Omid Hosseini Jafari](#), Carsten Rother  
Computer Vision and Pattern Recognition (CVPR) Explainable AI Workshop, Jun. 2019
- ACCV 2018 **Deep Object Co-Segmentation**  
[Omid Hosseini Jafari](#)<sup>\*</sup>, Weihao Li<sup>\*</sup>, Carsten Rother  
(\* equal contribution)  
Asian Conference on Computer Vision (ACCV), Dec. 2018
- ACCV 2018 **iPose: Instance-Aware 6D Pose Estimation of Partly Occluded Objects**  
[Omid Hosseini Jafari](#)<sup>\*</sup>, S.K. Mustikovela<sup>\*</sup>, K. Pertsch, E. Brachmann, C. Rother  
(\* equal contribution)  
Asian Conference on Computer Vision (ACCV), Dec. 2018
- ICCV 2017 **Bounding Boxes, Segmentations and Object Coordinates: How Important is Recognition for 3D Scene Flow Estimation in Autonomous Driving Scenarios?**  
[Omid Hosseini Jafari](#)<sup>\*</sup>, A. Behl<sup>\*</sup>, S. K. Mustikovela<sup>\*</sup>, H. Abu Alhaija, C. Rother, A. Geiger  
(\* equal contribution)  
International Conference on Computer Vision (ICCV), Oct. 2017
- VMV 2017 **Semantic-Aware Image Smoothing**  
Weihao Li, [Omid Hosseini Jafari](#), Carsten Rother  
International Symposium on Vision, Modeling and Visualization (VMV), Sep. 2017
- ICRA 2017 **Analyzing Modular CNN Architectures for Joint Depth Prediction and Semantic Segmentation**  
[Omid Hosseini Jafari](#), Oliver Groth, Alexander Kirillov, Michael Y. Yang, Carsten Rother  
IEEE International Conference on Robotics and Automation (ICRA), June 2017

- ICRA 2016 **Real-Time RGB-D based Template Matching Pedestrian Detection**  
Omid Hosseini Jafari, Michael Y. Yang  
IEEE International Conference on Robotics and Automation (ICRA), June 2016
- ICRA 2014 **Real-Time RGB-D based People Detection and Tracking for Mobile Robots and Head-Worn Cameras**  
Omid Hosseini Jafari, Dennis Mitzel, Bastian Laibe  
IEEE International Conference on Robotics and Automation (ICRA), June 2014

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## Skills

Programming Languages	C/C++, Python, C#, Basic(Commodore64, GWBasic, QBasic, Visual Basic), Pascal, Java
Tools	Pytorch, Tensorflow, CAFFE, MATALB, CodeVision, AVR, PSpice
Operating Systems	Linux/Unix, Windows, MS-DOS
Graphics Design	3D Studio, 3DS max, blender, ZBrush, Maya

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## Research Experiences

- 2016 - 2018 **Research Supervision and Teaching Preparation**, TU Dresden and Heidelberg University  
Master thesis supervision  
Computer Vision Lecture
- July 2016 **ICVSS 2016 Summer School**
- June 2013 **CVPR 2013 Demo**  
*Mentors: Dr. Dennis Mitzel, Prof. Bastian Leibe*  
Online People Detector and Tracker
- Apr. 2013 - Aug. 2013 **Lab Project**, Fraunhofer IAIS, Bonn, Germany  
*Mentor: Dr. Rolf Bardeli*  
Video processing and augmented reality.
- Oct. 2012 - Apr. 2013 **Lab Project**, Human Language Technology and Pattern Recognition Group  
*Mentor: Prof. Hermann Ney*  
Automatic Speech Recognition
- Mar. 2012 - Oct. 2014 **Student Research Assistant**, Computer Vision Lab at RWTH Aachen University, Germany  
*Advisor: Prof. Bastian Leibe*  
Multiple pedestrian detection and tracking.
- 2006 - 2009 **ACM ICPC**  
as Participant and Mentor
- 2006 - 2009 **Teaching Assistant**, Azad University, Tehran, Iran  
Fundamentals of Programming (C++)  
Data Structure  
introduction to algorithms  
Logical Circuits

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## References

- Ph.D. Advisor Dr. Prof. **Carsten Rother**, *Visual Learning Lab*, Heidelberg University, Germany.  
✉ carsten.rother@iwr.uni-heidelberg.de
- Research Mentor Prof. Dr. **Andreas Geiger**, Max Plunk Institute and University of Tübingen, Germany.  
✉ andreas.geiger@tue.mpg.de
- M.Sc. Advisor Prof. Dr. **Bastian Leibe**, *Visual Computing Institute*, RWTH Aachen University, Germany.  
✉ leibe@vision.rwth-aachen.de

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## Hobbies

Playing musical instruments (Piano, Guitar, Tanbur), Cycling, Badminton, Tennis, Hiking, Paragliding